

Correlation Effects and Transport in Nanostructured Materials, Adriana Moreo and Elbio Dagotto, Florida State University/University of Tennessee, DMR0303348

Our group discovered cancellations in the conductivity as a function of the gate potential (V_g) in a system of two coupled quantum dots with two levels. The phenomenon is due to the possibility of different phases for the currents along path α and β and it may open new design possibilities for nanoscale devices based on molecular transport. (cond-mat/0404426)

